



Company: TEP Rocky Mountain LLC
Project: Garfield County, CO NAD83
Site: RWF 43-9 Pad
Well: RWF 343-9

PROJECT DETAILS: Garfield County, CO NAD83

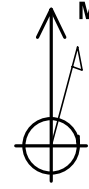
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone

System Datum: Mean Sea Level

Plan: Plan #1 8June2020 sbsdi

Well Details: RWF 343-9

GL 6963.4' & KB 24' @ 6393.40usft (H&P 318)
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1630197.9000 2327395.5000 39.5394352 -107.8851738 RWF 343-9

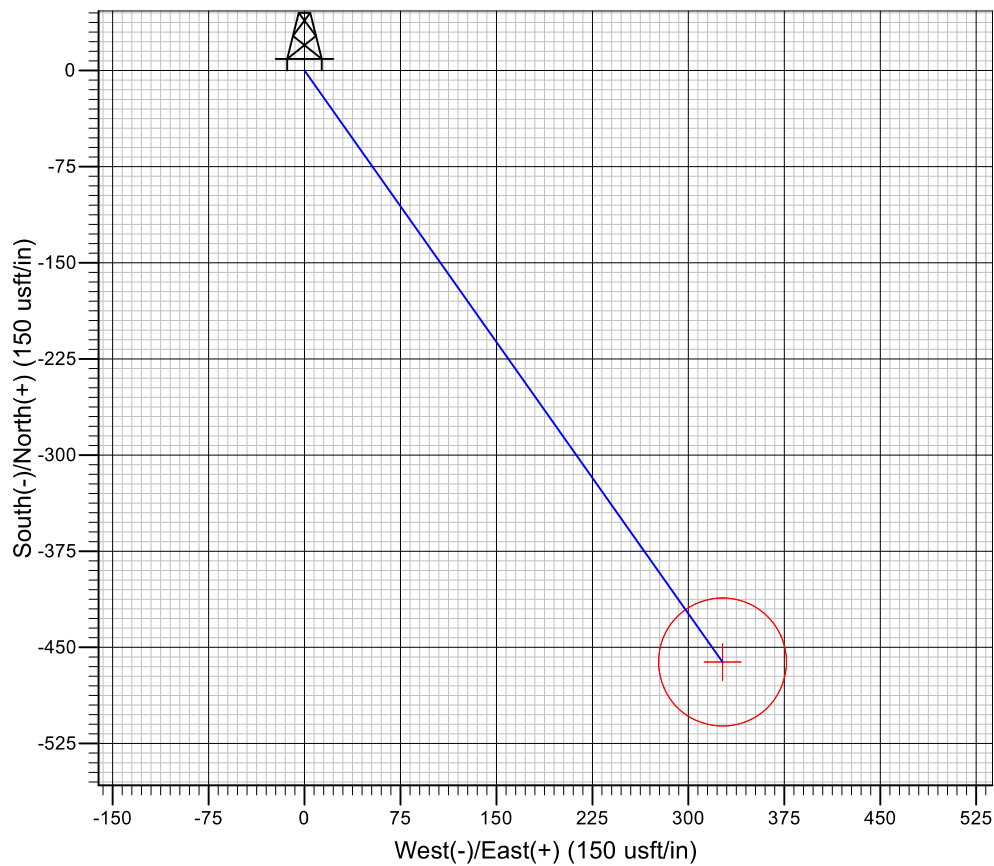
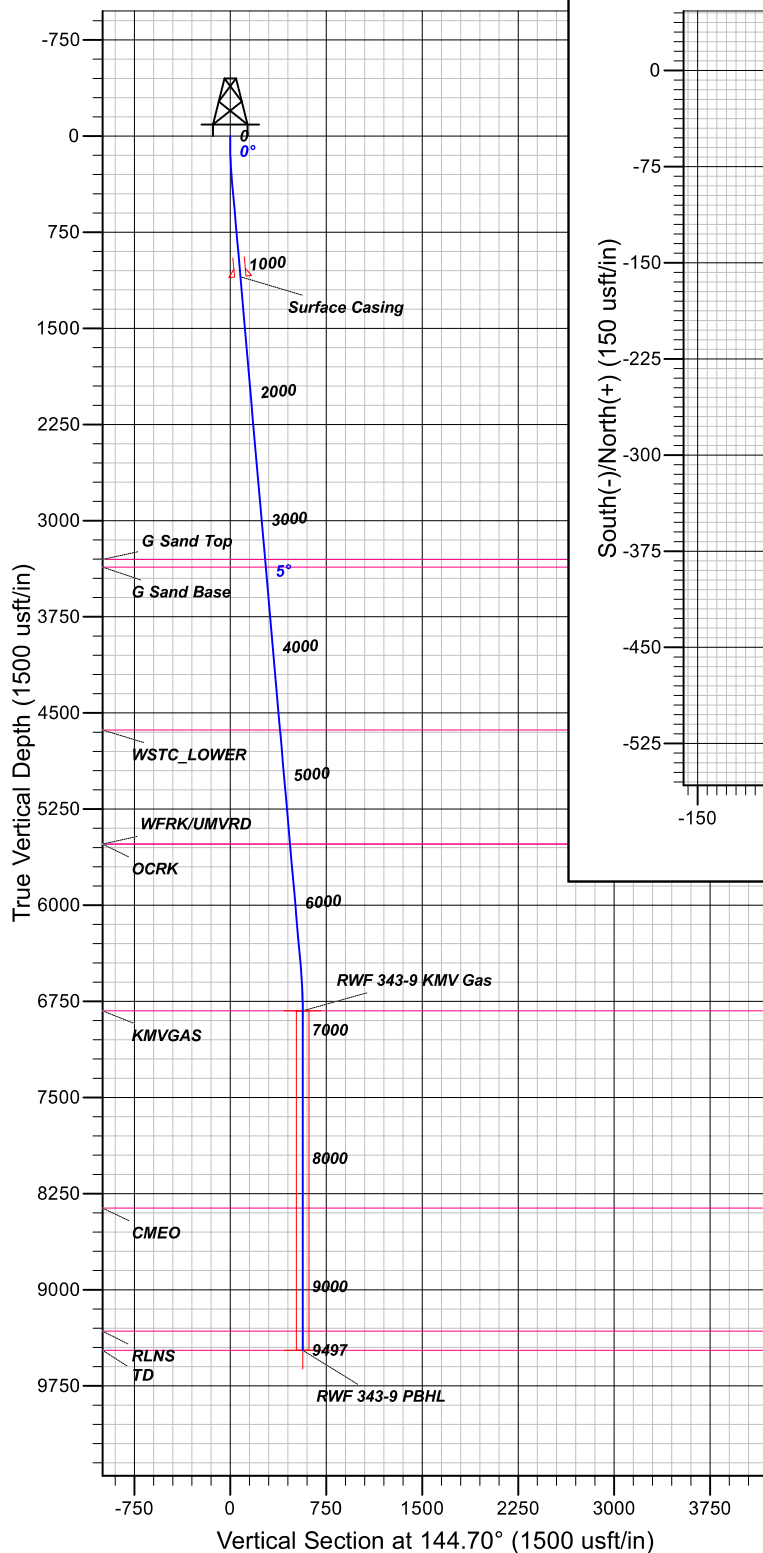


Azimuths to True North
Magnetic North: 9.22°

Magnetic Field
Strength: 51370.0nT
Dip Angle: 65.72°
Date: 6/8/2020
Model: HDGM_FILE

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
RWF 343-9 KMW Gas - plan hits target center	6823.00	-461.48	326.73	1629728.0000	2327710.0000	39.5381682	-107.8840153	Circle (Radius: 50.00)
RWF 343-9 PBHL - plan hits target center	9473.00	-461.48	326.73	1629728.0000	2327710.0000	39.5381682	-107.8840153	Point



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3303.00	3314.77	G Sand Top
3363.00	3375.00	G Sand Base
4633.00	4649.87	WSTC_LOWER
5523.00	5543.28	OCRK
5523.00	5543.28	WFRK/UMVRD
6823.00	6847.41	KMW GAS
8363.00	8387.41	CMEO
9323.00	9347.41	RLNS
9473.00	9497.41	TD

CASING DETAILS

TVD	MD	Name
1096.68	1100.00	Surface Casing

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00
286.94	5.01	144.70	286.72	-5.95	4.21	3.00	144.70	7.29
6513.53	5.01	144.70	6489.55	-449.58	318.30	0.00	0.00	550.85
6847.41	0.00	0.00	6823.00	-461.48	326.73	1.50	180.00	565.43
9497.41	0.00	0.00	9473.00	-461.48	326.73	0.00	0.00	565.43



TEP Rocky Mountain LLC

Garfield County, CO NAD83

RWF 43-9 Pad

RWF 343-9 - Slot RWF 343-9

OH

Plan: Plan #1 8June2020 sbsdi

Standard Planning Report

26 June, 2020



Database:	Grand Junction	Local Co-ordinate Reference:	Well RWF 343-9 - Slot RWF 343-9
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6963.4' & KB 24' @ 6393.40usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 6963.4' & KB 24' @ 6393.40usft (H&P 318)
Site:	RWF 43-9 Pad	North Reference:	True
Well:	RWF 343-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 8June2020 sbsdi		

Project	Garfield County, CO NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	RWF 43-9 Pad, Site Center : RWF 43-9		
Site Position:		Northing:	1,630,175.9000 usft
From:	Map	Easting:	2,327,330.9000 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	39.5393702
		Longitude:	-107.8854007
		Grid Convergence:	-1.50 °

Well	RWF 343-9 - Slot RWF 343-9, 2549' FSL 486' FEL Sec 9 T6S R94W					
Well Position	+N/-S	23.69 usft	Northing:	1,630,197.9000 usft	Latitude:	39.5394352
	+E/-W	64.00 usft	Easting:	2,327,395.5000 usft	Longitude:	-107.8851738
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,369.40 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	6/8/2020	9.22	65.72	51,370.00000000

Design	Plan #1 8June2020 sbsdi				
Audit Notes:					
Version:	Phase:	PLAN		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	144.70	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
286.94	5.01	144.70	286.72	-5.95	4.21	3.00	3.00	0.00	144.70	
6,513.53	5.01	144.70	6,489.55	-449.58	318.30	0.00	0.00	0.00	0.00	
6,847.41	0.00	0.00	6,823.00	-461.48	326.73	1.50	-1.50	0.00	180.00	RWF 343-9 KVM Gas
9,497.41	0.00	0.00	9,473.00	-461.48	326.73	0.00	0.00	0.00	0.00	RWF 343-9 PBHL

Database:	Grand Junction	Local Co-ordinate Reference:	Well RWF 343-9 - Slot RWF 343-9
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6963.4' & KB 24' @ 6393.40usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 6963.4' & KB 24' @ 6393.40usft (H&P 318)
Site:	RWF 43-9 Pad	North Reference:	True
Well:	RWF 343-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 8June2020 sbsdi		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
Start Build 3.00										
200.00	2.40	144.70	199.98	-1.37	0.97	1.68	3.00	3.00	0.00	
286.94	5.01	144.70	286.72	-5.95	4.21	7.29	3.00	3.00	0.00	
Start 6226.60 hold at 286.94 MD										
300.00	5.01	144.70	299.74	-6.88	4.87	8.43	0.00	0.00	0.00	
400.00	5.01	144.70	399.36	-14.01	9.92	17.16	0.00	0.00	0.00	
500.00	5.01	144.70	498.97	-21.13	14.96	25.89	0.00	0.00	0.00	
600.00	5.01	144.70	598.59	-28.26	20.00	34.62	0.00	0.00	0.00	
700.00	5.01	144.70	698.21	-35.38	25.05	43.35	0.00	0.00	0.00	
800.00	5.01	144.70	797.83	-42.51	30.09	52.08	0.00	0.00	0.00	
900.00	5.01	144.70	897.45	-49.63	35.14	60.81	0.00	0.00	0.00	
1,000.00	5.01	144.70	997.07	-56.75	40.18	69.54	0.00	0.00	0.00	
1,100.00	5.01	144.70	1,096.68	-63.88	45.23	78.27	0.00	0.00	0.00	
Surface Casing										
1,200.00	5.01	144.70	1,196.30	-71.00	50.27	87.00	0.00	0.00	0.00	
1,300.00	5.01	144.70	1,295.92	-78.13	55.32	95.73	0.00	0.00	0.00	
1,400.00	5.01	144.70	1,395.54	-85.25	60.36	104.46	0.00	0.00	0.00	
1,500.00	5.01	144.70	1,495.16	-92.38	65.40	113.19	0.00	0.00	0.00	
1,600.00	5.01	144.70	1,594.77	-99.50	70.45	121.92	0.00	0.00	0.00	
1,700.00	5.01	144.70	1,694.39	-106.63	75.49	130.65	0.00	0.00	0.00	
1,800.00	5.01	144.70	1,794.01	-113.75	80.54	139.38	0.00	0.00	0.00	
1,900.00	5.01	144.70	1,893.63	-120.88	85.58	148.11	0.00	0.00	0.00	
2,000.00	5.01	144.70	1,993.25	-128.00	90.63	156.84	0.00	0.00	0.00	
2,100.00	5.01	144.70	2,092.87	-135.13	95.67	165.57	0.00	0.00	0.00	
2,200.00	5.01	144.70	2,192.48	-142.25	100.71	174.30	0.00	0.00	0.00	
2,300.00	5.01	144.70	2,292.10	-149.38	105.76	183.02	0.00	0.00	0.00	
2,400.00	5.01	144.70	2,391.72	-156.50	110.80	191.75	0.00	0.00	0.00	
2,500.00	5.01	144.70	2,491.34	-163.63	115.85	200.48	0.00	0.00	0.00	
2,600.00	5.01	144.70	2,590.96	-170.75	120.89	209.21	0.00	0.00	0.00	
2,700.00	5.01	144.70	2,690.58	-177.88	125.94	217.94	0.00	0.00	0.00	
2,800.00	5.01	144.70	2,790.19	-185.00	130.98	226.67	0.00	0.00	0.00	
2,900.00	5.01	144.70	2,889.81	-192.12	136.02	235.40	0.00	0.00	0.00	
3,000.00	5.01	144.70	2,989.43	-199.25	141.07	244.13	0.00	0.00	0.00	
3,100.00	5.01	144.70	3,089.05	-206.37	146.11	252.86	0.00	0.00	0.00	
3,200.00	5.01	144.70	3,188.67	-213.50	151.16	261.59	0.00	0.00	0.00	
3,300.00	5.01	144.70	3,288.28	-220.62	156.20	270.32	0.00	0.00	0.00	
3,314.77	5.01	144.70	3,303.00	-221.68	156.95	271.61	0.00	0.00	0.00	
G Sand Top										
3,375.00	5.01	144.70	3,363.00	-225.97	159.98	276.87	0.00	0.00	0.00	
G Sand Base										
3,400.00	5.01	144.70	3,387.90	-227.75	161.25	279.05	0.00	0.00	0.00	
3,500.00	5.01	144.70	3,487.52	-234.87	166.29	287.78	0.00	0.00	0.00	
3,600.00	5.01	144.70	3,587.14	-242.00	171.33	296.51	0.00	0.00	0.00	
3,700.00	5.01	144.70	3,686.76	-249.12	176.38	305.24	0.00	0.00	0.00	
3,800.00	5.01	144.70	3,786.38	-256.25	181.42	313.97	0.00	0.00	0.00	
3,900.00	5.01	144.70	3,885.99	-263.37	186.47	322.70	0.00	0.00	0.00	
4,000.00	5.01	144.70	3,985.61	-270.50	191.51	331.43	0.00	0.00	0.00	
4,100.00	5.01	144.70	4,085.23	-277.62	196.56	340.16	0.00	0.00	0.00	

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Site:	RWF 43-9 Pad	North Reference:	True
Well:	RWF 343-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 8June2020 sbsdi		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,200.00	5.01	144.70	4,184.85	-284.75	201.60	348.89	0.00	0.00	0.00	
4,300.00	5.01	144.70	4,284.47	-291.87	206.64	357.62	0.00	0.00	0.00	
4,400.00	5.01	144.70	4,384.09	-299.00	211.69	366.35	0.00	0.00	0.00	
4,500.00	5.01	144.70	4,483.70	-306.12	216.73	375.08	0.00	0.00	0.00	
4,600.00	5.01	144.70	4,583.32	-313.25	221.78	383.81	0.00	0.00	0.00	
4,649.87	5.01	144.70	4,633.00	-316.80	224.29	388.16	0.00	0.00	0.00	
WSTC_LOWER										
4,700.00	5.01	144.70	4,682.94	-320.37	226.82	392.54	0.00	0.00	0.00	
4,800.00	5.01	144.70	4,782.56	-327.50	231.87	401.27	0.00	0.00	0.00	
4,900.00	5.01	144.70	4,882.18	-334.62	236.91	410.00	0.00	0.00	0.00	
5,000.00	5.01	144.70	4,981.79	-341.74	241.95	418.73	0.00	0.00	0.00	
5,100.00	5.01	144.70	5,081.41	-348.87	247.00	427.46	0.00	0.00	0.00	
5,200.00	5.01	144.70	5,181.03	-355.99	252.04	436.19	0.00	0.00	0.00	
5,300.00	5.01	144.70	5,280.65	-363.12	257.09	444.91	0.00	0.00	0.00	
5,400.00	5.01	144.70	5,380.27	-370.24	262.13	453.64	0.00	0.00	0.00	
5,500.00	5.01	144.70	5,479.89	-377.37	267.18	462.37	0.00	0.00	0.00	
5,543.28	5.01	144.70	5,523.00	-380.45	269.36	466.15	0.00	0.00	0.00	
OCRK - WFRK/UMVRD										
5,600.00	5.01	144.70	5,579.50	-384.49	272.22	471.10	0.00	0.00	0.00	
5,700.00	5.01	144.70	5,679.12	-391.62	277.26	479.83	0.00	0.00	0.00	
5,800.00	5.01	144.70	5,778.74	-398.74	282.31	488.56	0.00	0.00	0.00	
5,900.00	5.01	144.70	5,878.36	-405.87	287.35	497.29	0.00	0.00	0.00	
6,000.00	5.01	144.70	5,977.98	-412.99	292.40	506.02	0.00	0.00	0.00	
6,100.00	5.01	144.70	6,077.60	-420.12	297.44	514.75	0.00	0.00	0.00	
6,200.00	5.01	144.70	6,177.21	-427.24	302.49	523.48	0.00	0.00	0.00	
6,300.00	5.01	144.70	6,276.83	-434.37	307.53	532.21	0.00	0.00	0.00	
6,400.00	5.01	144.70	6,376.45	-441.49	312.57	540.94	0.00	0.00	0.00	
6,500.00	5.01	144.70	6,476.07	-448.62	317.62	549.67	0.00	0.00	0.00	
6,513.53	5.01	144.70	6,489.55	-449.58	318.30	550.85	0.00	0.00	0.00	
Start Drop -1.50										
6,600.00	3.71	144.70	6,575.76	-454.94	322.10	557.42	1.50	-1.50	0.00	
6,700.00	2.21	144.70	6,675.63	-459.16	325.08	562.59	1.50	-1.50	0.00	
6,800.00	0.71	144.70	6,775.59	-461.24	326.56	565.14	1.50	-1.50	0.00	
6,847.41	0.00	0.00	6,823.00	-461.48	326.73	565.43	1.50	-1.50	0.00	
Start 2650.00 hold at 6847.41 MD - KMGAS										
6,900.00	0.00	0.00	6,875.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,975.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,075.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,175.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,275.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,375.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,475.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,575.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,675.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,775.59	-461.48	326.73	565.43	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,875.59	-461.48	326.73	565.43	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,975.59	-461.48	326.73	565.43	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,075.59	-461.48	326.73	565.43	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,175.59	-461.48	326.73	565.43	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,275.59	-461.48	326.73	565.43	0.00	0.00	0.00	
8,387.41	0.00	0.00	8,363.00	-461.48	326.73	565.43	0.00	0.00	0.00	

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Wellbore:	OH		
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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
CMEO									
8,400.00	0.00	0.00	8,375.59	-461.48	326.73	565.43	0.00	0.00	0.00
8,500.00	0.00	0.00	8,475.59	-461.48	326.73	565.43	0.00	0.00	0.00
8,600.00	0.00	0.00	8,575.59	-461.48	326.73	565.43	0.00	0.00	0.00
8,700.00	0.00	0.00	8,675.59	-461.48	326.73	565.43	0.00	0.00	0.00
8,800.00	0.00	0.00	8,775.59	-461.48	326.73	565.43	0.00	0.00	0.00
8,900.00	0.00	0.00	8,875.59	-461.48	326.73	565.43	0.00	0.00	0.00
9,000.00	0.00	0.00	8,975.59	-461.48	326.73	565.43	0.00	0.00	0.00
9,100.00	0.00	0.00	9,075.59	-461.48	326.73	565.43	0.00	0.00	0.00
9,200.00	0.00	0.00	9,175.59	-461.48	326.73	565.43	0.00	0.00	0.00
9,300.00	0.00	0.00	9,275.59	-461.48	326.73	565.43	0.00	0.00	0.00
9,347.41	0.00	0.00	9,323.00	-461.48	326.73	565.43	0.00	0.00	0.00
RLNS									
9,400.00	0.00	0.00	9,375.59	-461.48	326.73	565.43	0.00	0.00	0.00
9,497.41	0.00	0.00	9,473.00	-461.48	326.73	565.43	0.00	0.00	0.00
TD at 9497.41 - TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
RWF 343-9 KMV Gas	0.00	0.00	6,823.00	-461.48	326.73	1,629,728.0000	2,327,710.0000	39.5381682	-107.8840153
- plan hits target center									
- Circle (radius 50.00)									
RWF 343-9 PBHL	0.00	0.00	9,473.00	-461.48	326.73	1,629,728.0000	2,327,710.0000	39.5381682	-107.8840153
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,100.00	1,096.68	Surface Casing	13.50	13.50	

Database:	Grand Junction	Local Co-ordinate Reference:	Well RWF 343-9 - Slot RWF 343-9
Company:	TEP Rocky Mountain LLC	TVD Reference:	GL 6963.4' & KB 24' @ 6393.40usft (H&P 318)
Project:	Garfield County, CO NAD83	MD Reference:	GL 6963.4' & KB 24' @ 6393.40usft (H&P 318)
Site:	RWF 43-9 Pad	North Reference:	True
Well:	RWF 343-9	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 8June2020 sbsdi		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,314.77	3,303.00	G Sand Top		0.00		
3,375.00	3,363.00	G Sand Base		0.00		
4,649.87	4,633.00	WSTC_LOWER		0.00		
5,543.28	5,523.00	OCRK		0.00		
5,543.28	5,523.00	WFRK/UMVRD		0.00		
6,847.41	6,823.00	KMVGAS		0.00		
8,387.41	8,363.00	CME0		0.00		
9,347.41	9,323.00	RLNS		0.00		
9,497.41	9,473.00	TD		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.00	0.00	Start Build 3.00	
286.94	286.72	-5.95	4.21	Start 6226.60 hold at 286.94 MD	
6,513.53	6,489.55	-449.58	318.30	Start Drop -1.50	
6,847.41	6,823.00	-461.48	326.73	Start 2650.00 hold at 6847.41 MD	
9,497.41	9,473.00	-461.48	326.73	TD at 9497.41	